MarCum TECHNOLOGIES

Showdown Troller

Digital Fish Finder

User Manual

Troller 2.0 Combo

Troller 2.0

Items sold separately

www.marcumtech.com

About Your New Showdown Troller Handheld Fish Finder

Your new Showdown Troller 2.0 Digital Fish Finder is a palm-sized sonar device with full size performance. While most often used in ice fishing applications to quickly "troll" from hole to hole, it is equally at home in open water where you can use it to shoot through your canoe or kayak in order to find fish and the correct depth. The ultimate in portability is matched to Showdown's proven Crystal-Quick® vertical display. Simply turn on your Showdown Troller, and immediately begin observing the action below. The Showdown's Auto Depth Range feature immediately locks on to the proper depth range, while also displaying digital depth at all times.

Standard features included in the Showdown Ice Troller are:

- 25-level noise sensitivity
- 10-level noise/interference rejection
- Ice mode
- Depth measurement in Standard or Metric
- 5 or 10 foot bottom lock zoom
- Battery status display

Getting Started

Your Showdown Troller 2.0 was purchased in one of two configurations—either as a stand-alone unit, or as a Combo, with a soft pack, shuttle and 12 volt battery.

If you purchased the Showdown Troller 2.0 as a stand-alone, it comes with the following:

- Showdown Troller Handheld sonar Unit
- 6-feet transducer / power cable and 200 kHz - 20 Degree transducer
- Neck Lanyard
- User's Manual
- Warranty Card

If you purchased the Showdown Troller 2.0 as a Combo, it comes with the above items as well as the following:

- Soft Pack
- Battery Box/Base
- Gimbal mount/slide-on bracket
- 12 volt battery
- Wiring harness
- Battery charger
- Transducer arm
- Transducer stopper

Your new Showdown Troller Digital Fish Finder runs on either 6 AA batteries (not included) or the optional 12 volt rechargeable battery. To use it with AA batteries, open up the battery compartment located in the back of the unit and insert 6AA batteries into the battery compartment and replace the cover.

To further set your Troller up, take one looped end of the neck lanyard and feed it through the neck lanyard slot located on the "bottom" on the Troller Unit. Take the other looped end, and pass it through the loop that has been fed through the slot to secure the lanyard to the Troller unit. Finally, simply secure the plug on the 6' transducer cord in to the power receptacle on the back of the unit and your Showdown Troller is now ready to be used. The 6AA batteries will power your Showdown Troller for up to 12 hours of continuous use.

12 Volt Rechargeable Battery Option

You may have purchased your Troller as part of the Combo Package, or you may have purchased it alone and have also bought the Performance Pack. Either of these options will allow you to power your Troller off of a rechargeable 12 volt battery. If you have purchased the Troller 2.0 as a stand-alone, you should consider getting a Performance Pack and 12 volt battery to add to the unit's versatility.

With either the Combo Pack or the Performance Pack, to power your Troller off the 12 volt battery you simply plug the 12V "pig-tail" lead that is part of the transducer cable into the wiring harness that is attached to the battery. Make sure that the both leads of the wiring harness are slid on to the terminals of your battery, red to red, black to black.

The Troller unit can be placed in and removed from the pack/shuttle with ease by using the Quick-Slide bracket that comes with the Performance Pack and Combo Pack. Feel free to keep AA batteries in place while using the 12 volt battery—when you are connected to the big battery, you will be using current from the big battery. Should you choose to go on a "scouting mission", you can quickly and easily disconnect the pigtail connection to return to running on AA battery power.

Battery Charging

Your Combo Pack or Performance Pack comes with a 3-stage battery charger. This style of charger has proven to be the most effective and easiest to use of all charging systems available. Because this is a 3-stage charger, there is no danger of overcharging your battery. When properly cared for, a sealed lead acid battery will last for at least a couple of years. Batteries are made to be used, and they need to be used to make the most of them. The most important thing you can do is to promptly recharge your battery after each use. Not charging your battery immediately after use is the number one thing that leads to battery failure.

For safety reasons, it is recommended that you place your system on a flat, hard surface like cement or tile when charging it, away from any flammable materials. Be sure to disconnect the charger from the wall when not in use, and avoid leaving your battery hooked up to the charger for extended periods of time.

When you get home from a trip, put your battery on charge right away, and leave it there overnight, or for around 8-12 hours. Likewise, on the night before you go ice fishing, put it on the charger again, just to make sure. Again, there is no danger of overcharging your battery. We often talk to people who hesitate to charge their battery after each use for fear that the battery will develop a "memory" and this will lead to a shortened run time—THIS IS FALSE!!! ALWAYS CHARGE YOUR BATTERY AFTER EVERY USE!!! Be sure to use the charger that came with your system, or a similar one that is between .5 amp and 1 amp. Using a larger charger, like you would use on a car, truck, RV, or boat is likely to cause damage to the battery. There is really very little danger of overcharging your battery with a low amp charger, and most chargers automatically go into "maintenance mode" once a full charge has been achieved. To charge, simply couple the end of the charger with the end of the wiring harness. It is normal for a green light to appear on the charger at this time. It is also normal for the light on the charger to be green if it is just plugged into the wall. When it is plugged into the wall and battery, you will see a red LED light appear on the charger. If the light is red, the battery is being charged. When your battery is fully charged, this red light should change to green. If it is time to go fishing and the light has not turned green, go fish and try to allow a longer charging period next time.

Showdown Troller Features

The Showdown's straightforward control panel is designed to let you concentrate on fishing. Most settings work by first activating the function itself (ex: press SENS to trigger sensitivity adjustment), then simply press the UP or DOWN keys to adjust levels.

POWER ON— To turn the Showdown Troller POWER to ON, press and hold POWER key for two seconds. The unit will beep, and a message will appear briefly at the bottom of the screen—this message indicates which software edition that your system is equipped with, and whether ICE MODE is on or off. (See below to activate ICE MODE). It is normal to hear a "ticking" sound coming from the transducer whenever the Troller is operating.

POWER OFF— To turn the Showdown Troller POWER to OFF, press and hold POWER for two seconds. Showdown Troller automatically preserves your sonar settings the next time you activate unit.

BACKLIGHT— To turn backlight on, turn Showdown Troller POWER ON, then press POWER key again (do not hold key down). To turn backlight off, press POWER momentarily again (do not hold button down).

SIMULATOR mode— With Showdown Troller POWER OFF, enter SIMULATOR mode by pressing and holding POWER key for 5 seconds. "SI" will appear on the bottom of the screen, indicating you are in SIMULATOR mode. SIMULATOR mode shows how the bottom, a lure and fish would appear on the screen if you were fishing in 32' of water. To exit SIMULATOR mode, turn the Showdown Troller POWER to OFF, then turn unit back ON. While in SIMULATOR mode, it is easy to experiment with the various settings to see how they work and what effect they have on your display. While in SIMULATOR mode, you will not hear the "ticking" sound coming from the transducer.

ICE MODE— Your Showdown Troller sonar offers exclusive ICE MODE, a feature unique to Showdown sonar units, which allows for seamless operation in the coldest conditions. With ICE MODE active, Showdown Troller triggers an internal LCD heater that keeps the liquid crystals moving at their normal super high speeds, regardless of sub-freezing temperature. This means that anglers no longer have to worry about their sonar "slowing down" due to freezing liquid crystals. While this feature is called "Ice Mode", you may find that your Showdown performs better under a wide variety of conditions when in "ICE" mode. The extra amount of power used to operate the LCD heater is insignificant.

NOTE: If your Showdown Troller is left in extreme cold for an extended time period with the POWER turned OFF, allow one to two minutes for the Ice Mode LCD heater to warm the crystals sufficiently, after POWER has been turned ON, and ICE Mode has been activated. After the ICE Mode LCD heater has been running for an extended period, it is perfectly normal for the Showdown Troller power-head to feel warm.

TO INITIATE ICE MODE, simply press the UP and DOWN buttons simultaneously. You will now see the message "ICE ON" flash briefly at the bottom of the screen. The internal LCD heater is now activated. To exit ICE mode and return Showdown Troller to normal operating mode, press the UP and DOWN keys simultaneously. The message "ICE OFF" will now flash briefly at the bottom of the screen.

SENSITIVITY— The Showdown Troller is a highly sensitive sonar unit capable of reading the tiniest of solid objects below. It features a 25-level adjustable Sensitivity function with surface clutter elimination. Ideally, Sensitivity should be set at the lowest level possible to still view your lure and surrounding fish, while at the same time "tuning out" excessive clutter in the water column. Clutter can make reading the sonar screen more difficult. Clutter can be caused by any number of suspended items, including algae, zooplankton, tiny bubbles, and other particles.

If you're seeing too much clutter, simply decrease the Sensitivity level until the clutter disappears. Conversely, if you're not reading your lure directly below the transducer, consider increasing the Sensitivity level. In most cases, you will have the best performance with the Sensitivity set between 5 and 10. To adjust Showdown Troller SENSITIVITY, press the SENS/ZOOM button. The "SENS" indicator will appear at the lower left of view-screen, along with a number that indicates the Sensitivity setting (0 to 25) at the bottom of the screen. With the SENS indicator activated, press the UP or DOWN key to increase or decrease sonar SENSITIVITY to the desired level.

ZOOM—The Troller has a bottom lock zoom feature that allows the user to have a close-up look at the bottom 5 or 10 feet of the water column. To activate the bottom-lock zoom, press and hold the SENS/ZOOM button for approximately 4 seconds, and the display will change to show the bottom 10 feet of the water column. Press and hold the button again, and the display will now show the bottom 5 feet of the water column. To exit ZOOM, press and hold the button again, and you will be back to full water column view.

RANGE— The Showdown Troller is equipped with 5-separate depth ranges—20, 40, 60, 80, and 120'. Regardless of the manual depth range setting, Showdown Troller will always display digital depth down to 120', even if bottom is deeper than the bottom limit of your current RANGE setting.

AUTO RANGE— In Auto Range mode, Showdown Troller will automatically lock into the depth range appropriate to the depth of the water. For instance, in 32-feet of water, Showdown Troller will automatically lock in at the 40-foot depth range. Auto Range allows you to simply turn on the power and begin fishing. Your Ice Troller is in Auto Range Mode when you turn it on.

MANUAL RANGE— To manually adjust the Troller's depth range, press the RANGE/METRIC key. This will cause the digital depth markers to flash on-and-off, indicating that the sonar has switched from AUTO RANGE mode to MANUAL RANGE mode. While the display is flashing, press either the UP or DOWN key to toggle between depth ranges—20-FT, 40-FT, 60-FT, 80-FT, 120FT, Pressing UP moves RANGE to the next shallower depth zone; DOWN moves to the next deeper zone. To go back to Auto Range, press the RANGE/METRIC key, then press the UP key (moving Range to the next shallower setting) until the Range passes the 20-foot range by one step. At this point, you see a flashing "A" icon instead of the FEET indicator. To return to manual range, simply press RANGE/METRIC again, and scroll DOWN to the desired range.

METRIC— To change your display to read in meters rather than feet, press and hold the RANGE/METRIC for approximately 4 seconds. When in metric mode, all depth measurements, including zoom functions, will be displayed in meters. Repeat this process to return to measurements in feet.

NOISE (Interference Rejection) — The unit's Noise Rejection feature allows you to use your Showdown Troller in close proximity to other sonar units, trolling motors, and other electronic devices without experiencing excessive signal interference. A ten (10) level Noise Rejection function allows you to adjust to a wide range of rejection levels. If "noise interference" occurs, increase the Noise Rejection level until you effectively eliminate the signal interference. To adjust the Troller's NOISE Rejection control, simply press the NOISE/BATT button once. The message "noi" will start to blink at the bottom of the screen, followed by a number. This number indicates the level of NOISE rejection you are at. Pressing the UP or DOWN button at this time will change this number and your level of noise rejection. Continue to adjust until interference is eliminated. After approximately 5-seconds, all noise rejection data will disappear from the screen, but still be active.

BATTERY STATUS— Press and hold the NOISE/BATT button for approximately 4 seconds and your battery status will appear, reflected in a percentage of 0-100 at the bottom of the display. This status indicator will disappear after a few seconds.

Other Showdown Troller Features

Backlight— Your Showdown Troller offers a warm "nightglow" backlight that actually accentuates the pixels in the display. The backlight can be turned on or off by briefly pressing the POWER button after unit is ON.

Digital Depth— The digital depth display on the Showdown Troller sonar provides a quick and easy way to determine depth. Digital Depth is always displayed in the bottom of the display. In addition, the digital depth scale indices are shown to the left of the display area for quickly determining the depth of fish or your lure.

Low Battery Warning— When battery power reaches very low levels, a low battery indicator will appear and flash at the top right of the display. An audible beep will also sound every 30 seconds. This signifies that it is time to replace the 6 AA batteries, or recharge the 12 volt battery.

"Last Settings" Memory— Your Showdown Troller automatically remembers the settings you used last. So when it is turned OFF and then ON again, your previous settings will be preserved and active.

Tips For Using Your Showdown Troller

Setting up the transducer: When placing the Showdown Troller Transducer in an ice- hole or over the side of a watercraft, the transducer will automatically level itself—accurately displaying the water depth and other underwater features like fish and weeds. When using the transducer to "shoot through" the bottom of a canoe, kayak or other watercraft, be sure that the bottom of the transducer is level before attempting to shoot through, so a positive bottom reading can be seen. Many anglers successfully shoot through the hull of their canoe or kayak by placing a wet towel on the floor of their boat, then placing the transducer on top of that. When Ice-Fishing, we recommend having transducer down the least amount possible. The Showdown Ice Troller puts out enough power that in most cases it is not necessary to have your transducer down more than a few inches below the water line to get a good reading. When the ice thickness is over two feet, it may be necessary to have your transducer set farther down. Remember--the less transducer cable you have out, the easier it is to pull it out of the water when bringing in a fish, or to move to a new location.

How to read the Showdown Troller sonar signals: The Showdown Troller displays the water column in its natural state (vertically), rather than in a circular configuration. On the Showdown, top is the surface, and bottom is bottom. Bottom appears as a dark solid bar above decreasingly solid bars below. A thicker "bottom band" indicates a harder bottom composition, such as rock, gravel or sand. A thinner band indicates a softer bottom.

Generally, a solid band that appears on the screen between the surface and bottom indicates some form of aquatic life (game fish, baitfish, insects, plankton, etc.), or your lure. Thicker, or more solid bands, imply larger objects, such as game fish. Stronger or denser objects return a stronger signal back to the transducer than smaller objects.

At the same time, even a large fish may not return a strong signal until it swims directly beneath your transducer. This is because the transducer emits a cone-shaped signal that increases in diameter as the signal travels deeper. Therefore, not only will a fish appear to grow in size as it travels beneath the transducer (the signal has become stronger), but it will also appear to be

swimming from deeper water to shallower water, even though this may not be the case at all. A fish that's swimming at 25 feet may not display at 25-feet until it passes directly beneath the sonar transducer. That's simply because the sonar signal travels further to return an echo from a fish that's off to the side than it does for a fish that's directly below.

How do I "see" my lure?

The best way to find your lure on the Showdown Troller screen is to simply drop it down to bottom, then reel it up about a foot. You should see a single solid band appear above bottom to signify your lure. If you do not see this, adjust the sonar Sensitivity by pressing the SENS/ZOOM button and then the UP/DOWN keys (see SENSITVITY). Adjust sensitivity until you can make out your lure even as you reel it up toward the surface, or jig it up and down. Do not increase sensitivity too much, however, as doing this may cause your Showdown Troller to display excess "clutter" that makes following your lure and nearby fish more difficult.

Battery life and sonar run-time: Using 6AA battery power, 12 hours of continuous use can be achieved.

If using the optional 12 volt battery, you should easily get 30 hours of use between charges. To avoid an unexpected shortage of power, always have a spare set of AA batteries with you. To assure long battery life, and peak sonar performance, we recommend checking your 6AA batteries often and charging your 12V battery after every use.

Will the Showdown Troller read through the ice?

Yes. This is a great way to save time while looking for a particular spot or depth. To receive a sonar signal directly through the ice (without drilling a hole), first clear off any snow that may be covering ice. Make sure that ice in the area is relatively "clear" ice without excessive bubbles or frost pockets, which can deflect sonar signals. Pour about a cup of water on the spot, and immediately rest the transducer on the standing water on the ice. If the surface of the ice is rough or filled with air bubbles, drilling a 1" deep hole in the ice before checking the depth may be necessary.

Caring For Your Showdown Troller

To keep your Showdown Troller running at optimal performance, we recommend the following: Stow your Showdown Troller properly when not in use. Turn sonar power off, and disconnect Power plug from back of unit. Remove the AA batteries if storing for over 3 months. If using the Performance Pack, slide the adjustable transducer arm back into the housing, and stow transducer into the interior pocket. Close and secure soft case door with Velcro enclosure. Store in cool (above 30°F, below 85°F), dry location whenever possible. If you use the Performance pack with a 12 volt battery, recharge the battery after every use, and during prolonged storage periods, recharge the battery every few months, and disconnect the charger from the wall and the battery when not in use. These steps will maximize the life of your battery. To clean your Showdown Troller periodically, use a mild dishwashing soap and a soft cloth, and gently clean the Showdown Troller power head and view screen. DO NOT use window cleaner or alcohol-based cleaning products—they may damage LCD screen and void your warranty.

Troubleshooting

Unit will not power up:

- 6AA Batteries may need to be replaced – Try replacing the 6AA batteries.
- Batteries installed improperly—make sure batteries are installed observing proper polarity
- Power cord may not be connected to Showdown Troller Unit - Check connections and try POWER again.
- Check wiring on power cable. Make sure all connections between the Showdown Troller/ transducer / battery are solid, and be sure that the fuse is intact

Unit turns on but will not read bottom:

- Transducer may not be properly leveled or connected.
- Check cable connections. Make sure the bottom of the transducer has a clear path to the bottom, and is not obstructed by any solid objects.
- Check to see if you have adjusted the manual depth range. If range is set shallower than the depth of the water, bottom will not display in the viewing area. Adjust range to be just slightly deeper than bottom.
- You may be fishing in water that is too shallow to get a good reading. The Troller does not work well in water less than 4 feet. When fishing in very shallow water, have as little ducer cable in the water as possible

Screen seems to be getting heavy interference, with lots of "clutter":

- Adjust the Showdown Troller sensitivity. Often, decreasing the unit's sensitivity will keep unwanted signals from appearing on screen.
- You might be receiving interference from adjacent electronic devices, such as a competing sonar unit. Activate and adjust the Troller's Noise Rejection until you find a level that clears up most or all of the interference (see NOISE section).

Display only shows 32'

- Troller is in simulator mode. Turn the Troller OFF by holding the POWER button in for 5 seconds, and then turn it back on.

Showdown Troller Specifications

200 kHz Transducer Angle: 20° Transmit Power:

Up to 4000 watts peak-to-peak power

2 inch Target Separation

Sensitivity Control: 25-level

Noise Rejection Control: 10-level anti-interference

Range Control: 5 depth ranges—20', 40', 60', 80', 120' (Auto and Manual Settings)

Ice Fishing Mode: Activates LCD heater, and boosts gain Digital Depth Display:

Display Grayscale: 4-level Grayscale

Showdown Troller Replacement Parts

Should you need to order any replacement parts for your Showdown Troller Digital Fish Finder, you can find them by going to the Showdown Website at www.marcumtech.com

One-Year Limited Warranty

Marcum warrants this product to be free from defects in materials and workmanship for two years from the date of purchase. This warranty applies to customers who properly complete the online product registration form found on the MarCum Technologies Website www.marcumtech.com/support

If you are unable to use the internet, please fill out and submit the enclosed warranty registration card to be eligible for the one year warranty. Marcum Technologies will repair or replace any components that fail in normal use. Failures due to abuse, misuse, unauthorized alteration, modification, or repair are not covered. The battery is not covered by the warranty. The warranty is valid only for the original owner who purchases the unit from an authorized dealer.

An original sales receipt dated within the warranty period is required for all warranty claims.

How to Obtain Service

If your unit is malfunctioning, check the FAQ section of our website. You may find that the solution to your problem is something you can resolve yourself. If you need to send it in, there is no need to contact our office. Getting repairs made is as simple as going to our website, clicking on the service tab, and then filling out the Service Request Form. If your unit is under warranty, be sure to attach a picture/scan of your receipt showing the date of purchase. If your system is out of warranty, we have a flat-rate fee that will cover the cost of repairs, including parts and labor. Once you have completed the Warranty or Flat-Rate repair, package the unit as described on the website and ship it to us.

There is no need for an authorization or reference number, just make sure e that you have included your contact info and a brief description of the issue on a note in the box.

If you do not have the ability to use the Internet, you may also fill out the service request form included in the box with your unit. If you enclose this form in the box with your unit there is no need to contact our office, just include the filled out form in the shipping box.

Some people are more comfortable calling for shipping instructions. During peak ice season, we sometimes receive a high volume of calls, making it impossible to get to all customers who phone in. For this reason, strongly consider using the on-line form or email rather than calling. In your email, please provide your name, complete address, and cell phone #. Please indicate what model Marcum you have, approximate date of purchase, and what has gone wrong with it.

Please send your email inquiries to service@versae.com

If you are unable to use email or internet, you may also call us at 763-512-3987. Our office hours are Monday – Friday, 8 – 4 Central Time. International callers may use 888-778-1208

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The customer is responsible for shipping costs associated with returning the unit to Marcum Technologies. Marcum will pay for shipping the repaired unit back to the customer while it is still under warranty. All out of warranty services will be charged a fee for service and shipping which must be paid in advance. The unit should be securely packed and shipped "pre-paid freight" and insured to Marcum Technologies. It is the customer's full responsibility to track their products sent out in the mail or other forms of delivery service. Marcum Technologies will not be liable for packages lost en route to us. Unless specified otherwise, do not include batteries or other accessories when returning the product for repair. Marcum Technologies will not be responsible for lost or damaged accessories.

Turnaround time can vary, on average it is about 1 week.

OTHER MARCUM PRODUCTS

Here are some other great systems from Marcum. These items can be purchased from one of our many fine retailers, or direct from us at marcumtech.com

LX-5

The LX-5 incorporates the latest in sonar technology, featuring a patented flexible zoom that can be set anywhere between surface and bottom, a patent pending TrueColor display, 2500 watts of peak-to-peak power, patented signal interference rejection, Superfine Line Technology, and target separation down to 3/4 inch.

LX-7

The LX-7 Digital Sonar takes DNA from other fine Marcum sonars –you might say it was "bred" for excellence. Because the LX-7 is digital, we can pack it full of more features than have ever been found in an ice sonar before. With an 8" customizable dashboard display, superior target separation, 12-level interference rejection, dual-beam transducer, expandable zoom, and much, much more, the LX7 is the perfect combination of macro features and micro precision.

VS825SD

The VS825sd is the most technologically advanced underwater viewing system available.

The 8" LCD will deliver the most vivid display ever. On-Screen displays of Camera Direction, Depth, Temp and Battery Voltage take all of the guess work out of your camera position so your new VS825sd can be used to hunt for underwater treasures, locate the "spot on the spot", observe fish in their natural habitat or learn how fish react to your lure or bait presentation. The applications are endless, and it's never been easier or more fun to view.

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MarCum User Manuals are available for download from www.marcumtech.com.